

Installation guide

Pressure switch, KP 1, KP 1W, KP 1A, KP 2, KP 5, KP 5A, KP 6W, KP 6B, KP 6S, KP 6AW, KP 6AB, KP 6AS, KP 7W, KP 7B, KP 7S

060R9750

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Refrigerants:

R22, R134a, R404A, R407A, R407C, R407F, R410A*) R422B, R422D, R448A, R449A, R452A, R507A, R513A, R717**)

For complete list of approved refrigerants, go to <http://products.danfoss.com/all-products/>

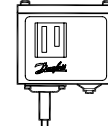
*) only for KP 6W, KP 6B, KP 6S, KP 6AW, KP 6AB, KP 6AS

***) only for KP 1A, KP 5A, KP 6AW, KP 6AB, KP 6AS

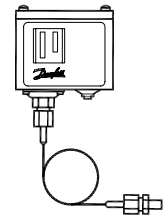
KP 1, KP 2,
KP 5, KP 6, KP 7



KP 1, KP 2,
KP 5, KP 6, KP 7

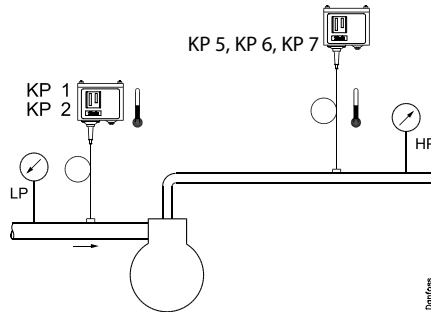
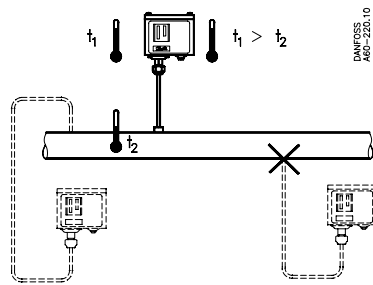


KP 1A, KP 5A



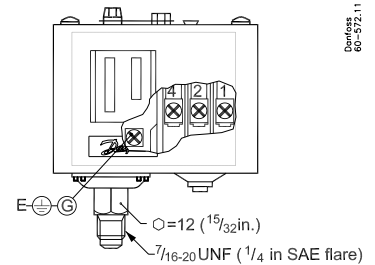
Ambient temperatures / Mounting requirements

-40 – 65 °C
-25 – 65 °C (PED approved units)

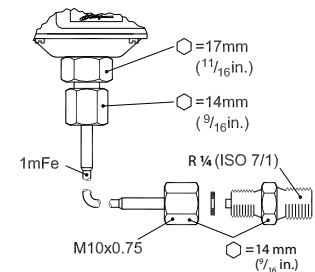


Relative humidity RH: 30 – 98%
Vibrations resistance: 4 g (10 – 1000 Hz)

Connections



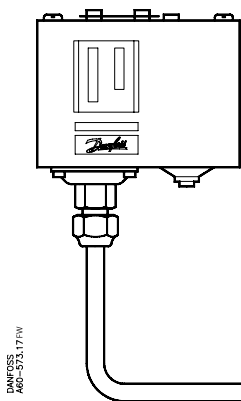
Connections for KP 1A, KP 5A, KP 6AS



Test pressure (P_{test}) PS/MWP

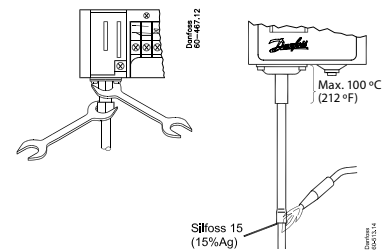
P_{test}max.:
 KP 1, KP 2: 20 bar p_e (285 psig)
 KP 2: 12 bar p_e (174 psig)
 KP 5, KP 7: 35 bar p_e (510 psig)
 KP 6: 46,5 bar p_e (675 psig)

Type	Regulation range	PS/MWP
KP 1	-0.2 – 7.5 bar	245 psig / 17 bar
KP 1, reset	-0.9 – 7.0 bar	245 psig / 17 bar
KP 1 W	0.5 – 3.0 bar	245 psig / 17 bar
KP 2	-0.2 – 5.0 bar	245 psig / 17 bar
KP 2	-0.2 – 3.5 bar	145 psig / 10 bar
KP 5	8 – 32 bar	510 psig / 35 bar
KP 6	8 – 42 bar	675 psig / 46,5 bar
KP 7	8 – 32 bar	510 psig / 35 bar

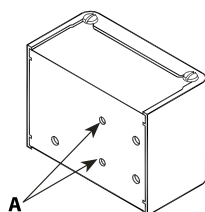


PS/MWP
(Maximum Working Pressure)

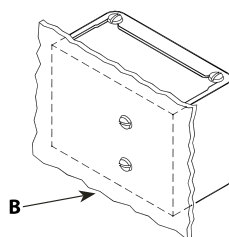
Mounting



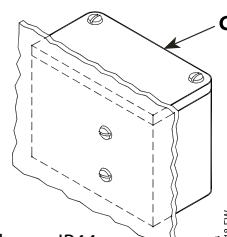
Enclosure



A: 8 – 32 UNC (M4)

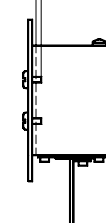


B: Enclosure IP30 (EN 60529)



C: Enclosure IP44 (EN 60529)

max. 3 mm (1/8 in.)



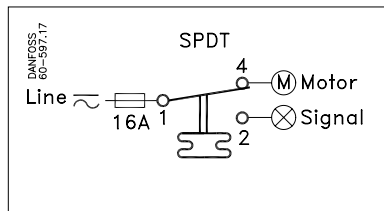
Danfoss
A60-957.11.10



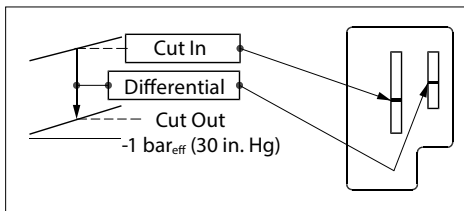
CAUTION:

Disconnect power supply before wiring connections are made or service to avoid possible electrical shock or damage to equipment. Do never touch live parts with your fingers or with any tool.

Contact 1-4 opens on pressure drop



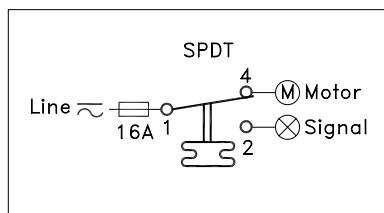
KP 1, KP 2



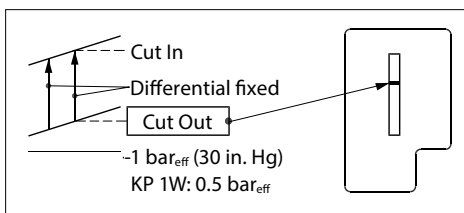
AC 1: 16 A	400 V a.c.	DC 13
AC 3: 16 A		12 W
AC 15: 10 A		220 V

Short circuit protection:
Fuse 16 Amp.

Contact 1-4 opens on pressure drop



KP 1W, KP 1 manual reset



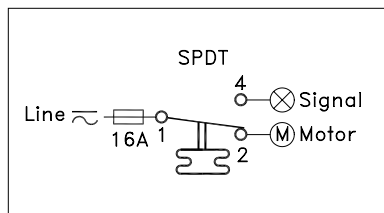
When used acc. to UL regulations

US LISTED Listed refrigeration controller 61B5

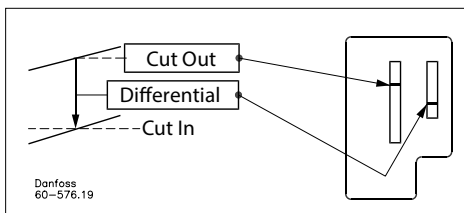
Voltage	FL		Resist. load	Pilot duty
	AC	DC		
240	—	8 A	48 A	3A
120	—	16 A	96 A	
—	240	—	—	12 W

Use copper wire only
Tightening torque 20 lb. in.

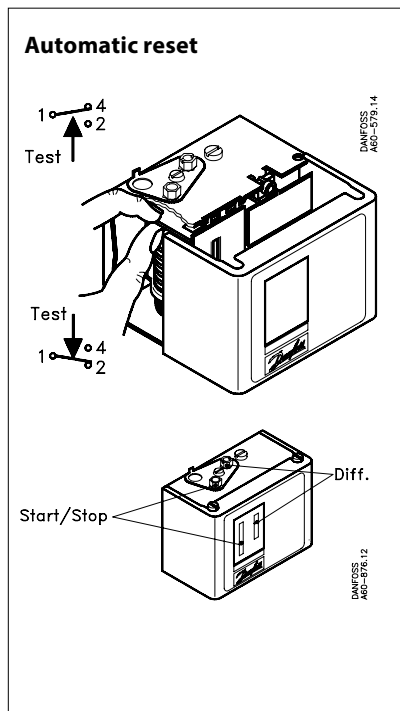
Contact 1-2 opens on pressure rise



KP 5, KP 5A, KP 6, KP 6A, KP 7

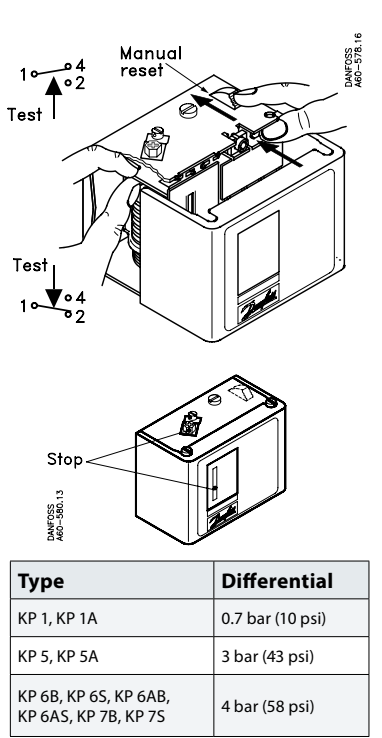


Manual trip function



Note:
use FINGERS ONLY!
(Do NOT use screwdriver)

Manual reset



Adjustment

